



Refrigeration oil

# Sunice® SL series

Polyolester (POE) refrigeration oils formulated specifically for use in refrigeration and air-conditioning compressors using HFC/HFO refrigerants.

The highest quality of Sunice SL series created by JSOs craftsmanship will ensure trouble-free and stable operation of your valuable refrigeration system.

## APPLICATIONS

For refrigeration compressors using HFC/HFO as a refrigerant.

- Sunice SL series is formulated for compressors in refrigerators, chillers, show cases, dehumidifier and air-conditioners using with HFC/HFO refrigerants.
- Especially having excellent miscibility and compatibility with HFC refrigerants such as **R-134a, R404A, R407C, R410A, R507A.**

## ADVANTAGES

Provide outstanding lubricity, stability and corrosion protection.

- Excellent Hydrolytic Stability.
- Remarkable Thermal Stability.
- Outstanding Lubricity.
- High Electrical Insulating Property.
- Supporting to make your compressor's life longer.

## SPECIFICATIONS

Approvals/ Recommendations/ References.

GEA Bock, Daewoo, Dorin, Embraco, GEA Grasso, HANBELL, Hasegawa Refrigeration, Hitachi, Mayekawa, McQuay, Kulthorn Kirby, LG, Mitsubishi Electric, Panasonic, Samsung, Toshiba Carrier, Tatung, and more.

## Typical Properties

Analysis	10S	22S	32S	46S	68S	100S	120T	170T	220T	320T
ISO Viscosity Grade	10	22	32	46	68	100	120	170	220	320
Density at 15°C	0.928	0.951	0.956	0.955	0.960	0.974	0.971	0.968	0.976	0.967
Viscosity (40 °C)	10.1	22.5	32.3	45.8	66.6	98.1	115.8	161.0	216.0	310.0
Viscosity (100 °C)	2.5	4.1	5.1	6.6	8.2	11.2	12.2	15.4	19.0	22.6
Pour point	< -50	< -50	-35.0	-42.5	-40.0	-35.0	-30.0	-30.0	-27.5	-15.0
Flash point (COC)	182	212	230	228	254	234	272	280	286	298

Above characteristics are mean values given as an information.

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Application table

ASHRAE	Evap-Temp From	Piston			Screw				Centrifugal				
R744 - sub	-50 °C	32S	46S	68S									
R744 - trans	-50 °C	68S											
R404A	-50 °C	32S	46S	68S	68S	100S	170T	220T					
R407C	-30 °C	68S			170T	220T							
R410A	-25 °C	32S			68S	100S							
R410A	-45 °C	32S			170T	220T							
R417A	-15 °C	68S			170T	220T							
R448A	-50 °C	32S	46S	68S	68S	100S	170T	220T					
R449A	-50 °C	32S	46S	68S	68S	100S	170T	220T					
R452A	-40 °C	32S	46S	68S	68S	100S	170T	220T					
R454A	-40 °C	32S	46S	68S	68S	100S	170T	220T					
R507A	-60 °C	32S			68S	100S	170T	220T					
R134a	-20 °C	32S	46S	68S	170T	220T			68S	100S	170T	220T	
R134a	-40 °C	32S	46S		68S	100S			68S	100S	170T	220T	
R245fa	-20 °C				68S	100S	170T	220T	68S	100S	170T	220T	
R1234yf	-20 °C	32S	46S	68S	68S	100S	170T	220T	68S	100S	170T	220T	
R1234ze(E)	-20 °C	32S	46S	68S	68S	100S	170T	220T	68S	100S	170T	220T	
R1233zd(E)	-20 °C				68S				68S				

For equipment under warranty, please refer to equipment builder recommendations.

In changing the technology or brand of refrigeration oil, flushing the system is recommended to minimize contamination with the old technology or brand.

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